



EXPRESS MAIL NO. EV889154210US

Sheet 1 of 7U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
980034.417C5APPLICATION NO.
10/762,210SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

APPLICANTS

Ronald J. Berenson et al.

FILING DATE

January 20, 2004

GROUP ART UNIT

1651

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK					
	AL					
	AM					
	AN					
	AO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Brodie et al., "In vivo migration and function of transferred HIV-1-specific cytotoxic T cells," <i>Nature Medicine</i> 5(1):34-41, January 1999.
	AQ	Cohen et al., "Propagation of mouse and human T cells with defined antigen specificity and function," <i>CIBA Foundation Symposium</i> , 187:179-197, 1994.
	AR	Curtsinger et al., "CD8 ⁺ Memory T Cells (CD44 ^{high} , Ly-6C ⁺) Are More Sensitive than Naïve Cells (CD44 ^{low} , Ly-6C ⁻) to TCR/CD8 Signaling in Response to Antigen," <i>J. Immunol.</i> , 160:3236-3243, 1998.

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	AA	Dahl et al., "Expression of Bcl-X _L Restores Cell Survival, but Not Proliferation and Effector Differentiation, in CD28-deficient T Lymphocytes," <i>J. Exp. Med.</i> , 191(12):2031-2037, June 19, 2000.
	AB	DeBenedette et al., "Costimulation of CD28 ⁻ T Lymphocytes by 4-1BB Ligand," <i>J. Immunol.</i> , 158(2):551-559, January 15, 1997.
	AC	Deeths et al., "B7-1-dependent co-stimulation results in qualitatively and quantitatively different responses by CD4 ⁺ and CD8 ⁺ T cells," <i>Eur. J. Immunol.</i> , 27(1):598-608, January 1997.
	AD	Deeths et al., "CD8 ⁺ T Cells Become Nonresponsive (Anergic) Following Activation in the Presence of Costimulation," <i>J. Immunol.</i> , 163:102-110, 1999.
	AE	Dong et al., "B7-H1, a third member of the B7 family, co-stimulates T-cell proliferation and interleukin-10 secretion," <i>Nature Medicine</i> 5(12):1365-1369, December 1999.
	AF	Dunbar et al., "Direct isolation, phenotyping and cloning of low-frequency antigen-specific cytotoxic T lymphocytes from peripheral blood," <i>Current Biology</i> , 8(7):413-416, March 26, 1998.
	AG	Fanger et al., "Type I (CD64) and Type II (CD32) Fcγ Receptor-Mediated Phagocytosis by Human Blood Dendritic Cells," <i>J. Immunol.</i> , 157(2):541-548, July 15, 1996.
	AH	Fowler et al., "Donor CD4-Enriched Cells of Th2 Cytokine Phenotype Regulate Graft-Versus-Host Disease Without Impairing Allogeneic Engraftment in Sublethally Irradiated Mice," <i>Blood</i> , 84(10):3540-3549, November 15, 1994.
	AI	Fraser et al., "Regulation of Interleukin-2 Gene Enhancer Activity by the T Cell Accessory Molecule CD28," <i>Science</i> , 251:313-316, January 18, 1991.
	AJ	Freeman et al., "Engagement of the PD-1 Immunoinhibitory Receptor by a Novel B7 Family Member Leads to Negative Regulation of Lymphocyte Activation," <i>J. Exp. Med.</i> , 192(7):1027-1034, October 2, 2000.
	AK	Gett et al., "Cell division regulates the T cell cytokine repertoire, revealing a mechanism underlying immune class regulation," <i>Proc. Natl. Acad. Sci. USA</i> , 95:9488-9493, August 1998.
	AL	Gett et al., "A cellular calculus for signal integration by T cells," <i>Nature Immunology</i> , 1(3):239-244, September 2000.
	AM	Gillis et al., "Long term culture of tumour-specific cytotoxic T cells," <i>Nature</i> , 268(14):154-156, July 14, 1977.
	AN	Gimmi et al., "B-cell surface antigen B7 provides a costimulatory signal that induces T cells to proliferate and secrete interleukin 2," <i>Proc. Natl. Acad. Sci. USA</i> , 88:6575-6579, August 1991.

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	Goodwin et al., "Molecular cloning of a ligand for the inducible T cell gene 4-1BB: a member of an emerging family of cytokines with homology to tumor necrosis factor," <i>Eur. J. Immunol.</i> , 23(10):2631-2641, October 1993.	
	AB	Green et al., "Antigen-specific human monoclonal antibodies from mice engineered with human Ig heavy and light chain YACs," <i>Nat. Genet.</i> , 7(1):13-21, May 1994.	
	AC	Groux et al., "CD3-mediated apoptosis of human medullary thymocytes and activated peripheral T cells: respective roles of interleukin-1, interleukin-2, interferon- γ and accessory cells," <i>Eur. J. Immunol.</i> , 23(7):1623-1629, July 1993.	
	AD	Guinn et al., "4-1BBL Cooperates with B7-1 and B7-2 in Converting a B Cell Lymphoma Cell Line into a Long-Lasting Antitumor Vaccine," <i>J. Immunol.</i> , 162:5003-5010, 1999.	
	AE	Hansen et al., "Monoclonal Antibodies Identifying a Novel T-Cell Antigen and Ia Antigens of Human Lymphocytes," <i>Immunogenetics</i> , 10(3):247-260, March 1, 1980.	
	AF	Harding et al., "CD28- mediated signalling co-stimulates murine T cells and prevents induction of anergy in T-cell clones," <i>Nature</i> 356:607-609, April 16, 1992.	
	AG	Heimfeld et al., "Improvements in Gene Therapy: Rapid Purification of Specific Target Cells Using the CEPRATE [®] System," <i>British J. Haematol.</i> , 87(1):193, Abstract No. 754, 1994.	
	AH	Henderson et al., "Comparison of the effects of FK-506, cyclosporin A and rapamycin on IL-2 production," <i>Immunol.</i> , 73(3):316-321, July 1991.	
	AI	Heslop et al., "Long-term restoration of immunity against Epstein-Barr virus infection by adoptive transfer of gene-modified virus-specific T lymphocytes," <i>Nature Medicine</i> 2(5):551-555, May 1996.	
	AJ	Hurtado et al., "Potential Role of 4-1BB in T Cell Activation," <i>J. Immunol.</i> 155(7):3360-3367, October 1, 1995.	
	AK	Hurtado et al., "Signals Through 4-1BB are Costimulatory to Previously Activated Splenic T Cells and Inhibit Activation-Induced Cell Death," <i>J. Immunol.</i> 158(6):2600-2609, March 15, 1997.	
	AL	Jelley-Gibbs et al., "Two Distinct Stages in the Transition from Naive CD4 T Cells to Effectors, Early Antigen-Dependent and Late Cytokine-Driven Expansion and Differentiation," <i>J. Immunol.</i> , 165:5017-5026, 2000.	
	AM	Jenkins et al., "Molecules involved in T-cell costimulation," <i>Curr. Opin. Immunol.</i> , 5(3):361-367, June 1993.	
	AN	June et al., "T-Cell Proliferation Involving the CD28 Pathway Is Associated with Cyclosporine-Resistant Interleukin 2 Gene Expression," <i>Mol. Cell. Biol.</i> , 7(12):4472-4481, December 1987.	
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	AA	Kabelitz et al., "Life and death of a superantigen-reactive human CD4 ⁺ T cell clone: staphylococcal enterotoxins induce death by apoptosis but simultaneously trigger a proliferative response in the presence of HLA-DR ⁺ antigen-presenting cells," <i>Int. Immunol.</i> , 4(12):1381-1388, December 1992.
	AB	Kawabe et al., "Programmed cell death and extrathymic reduction of V β 8 ⁺ CD4 ⁺ T cells in mice tolerant to <i>Staphylococcus aureus</i> enterotoxin B," <i>Nature</i> , 349:245-248, January 17, 1991.
	AC	Ku et al., "Control of Homeostasis of CD8 ⁺ Memory T Cells by Opposing Cytokines," <i>Science</i> , 288:675-678, April 28, 2000.
	AD	Kung et al., "Monoclonal Antibodies Defining Distinctive Human T Cell Surface Antigens," <i>Science</i> , 206:347-349, October 19, 1979.
	AE	Kurys et al., "The Long Signal Peptide Isoform and Its Alternative Processing Direct the Intracellular Trafficking of Interleukin-15," <i>J. Biol. Chem.</i> , 275(39):30653-30659, September 29, 2000.
	AF	Lanzavecchia, A., "Licence to Kill," <i>Nature</i> , 393:413-414, June 4, 1998.
	AG	Latouche et al., "Induction of human cytotoxic T lymphocytes by artificial antigen-presenting cells," <i>Nature Biotechnology</i> , 18(4):405-409, April 2000.
	AH	Laux et al., "Response Differences between Human CD4 ⁺ and CD8 ⁺ T-Cells during CD28 Costimulation: Implications for Immune Cell-Based Therapies and Studies Related to the Expansion of Double-Positive T-Cells during Aging," <i>Clin. Immunol.</i> , 96(3):187-197, September 2000.
	AI	Lenschow et al., "Long-Term Survival of Xenogeneic Pancreatic Islet Grafts Induced by CTLA4lg," <i>Science</i> , 257:789-792, August 7, 1992.
	AJ	Levine et al., "CD28 ligands CD80 (B7-1) and CD86 (B7-2) induce long-term autocrine growth of CD4 ⁺ T cells and induce similar patterns of cytokine secretion <i>in vitro</i> ," <i>Int. Immunol.</i> , 7(6):891-904, 1995.
	AK	Lindsten et al., "Regulation of Lymphokine Messenger RNA Stability by a Surface-Mediated T Cell Activation Pathway," <i>Science</i> , 244:339-343, April 21, 1989.
	AL	Linsley et al., "The Role of the CD28 Receptor During T Cell Responses to Antigen," <i>Annu. Rev. Immunol.</i> , 11:191-212, 1993.
	AM	Liu et al., "Calcineurin is a Common Target of Cyclophilin-Cyclosporin A and FKBP-FK506 Complexes," <i>Cell</i> , 66(4):807-815, August 23, 1991.
	AN	Liuzzo et al., "Perturbation of the T-Cell Repertoire in Patients With Unstable Angina," <i>Circulation</i> , 100(21):2135-2139, November 23, 1999.
	AO	Lord et al., "The IL-2 Receptor Promotes Proliferation, <i>bcl-2</i> and <i>bcl-x</i> Induction, But Not Cell Viability Through the Adapter Molecule Shc," <i>J. Immunol.</i> , 161:4627-4633, 1998.

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AA	Malefyt et al., "Direct Effects of IL-10 on Subsets of Human CD4 ⁺ T Cell Clones and Resting T Cells," <i>J. Immunol.</i> , 150(11):4754-4765, June 1, 1993.
AB	Marks-Konczalik et al., "IL-2-induced activation-induced cell death is inhibited in IL-15 transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> , 97(21):11445-11450, October 10, 2000.
AC	Melero et al., "Monoclonal antibodies against the 4-1BB T-cell activation molecule eradicate established tumors," <i>Nature Medicine</i> , 3(6):682-685, June 1997.
AD	Melero et al., "Amplification of tumor immunity by gene transfer of the co-stimulatory 4-1BB ligand: synergy with the CD28 co-stimulatory pathway," <i>Eur. J. of Immunol.</i> 28(3):1116-1121, March 1998.
AE	Melief et al., "T-Cell Immunotherapy of Tumors by Adoptive Transfer of Cytotoxic T Lymphocytes and by Vaccination with Minimal Essential Epitopes," <i>Immunological Reviews</i> , 146:167-177, 1995.
AF	Musso et al., "Human Monocytes Constitutively Express Membrane-Bound, Biologically Active, and Interferon - γ - Upregulated Interleukin-15," <i>Blood</i> , 93(10):3531-3539, May 15, 1999.
AG	Pollok et al., "Inducible T Cell Antigen 4-1BB: Analysis of Expression and Function," <i>J. Immunol.</i> , 150(3):771-781, February 1, 1993.
AH	Rabinovitch, "Regulation of human fibroblast growth rate by both noncycling cell fraction and transition probability is shown by growth in 5-bromodeoxyuridine followed by Hoechst 33258 flow cytometry," <i>Proc. Natl. Acad. Sci. USA</i> , 80:2951-2955, May 1983.
AI	Refaeli et al., "Biochemical Mechanisms of IL-2-Regulated Fas-Mediated T Cell Apoptosis," <i>Immunity</i> , 8(5):615-623, May 1998.
AJ	Riddell et al., "The Fred Hutchinson Cancer Research Center and the University of Washington School of Medicine, Department of Medicine, Division of Oncology: Phase I Study of Cellular Adoptive Immunotherapy Using Genetically Modified CD8 ⁺ HIV-Specific T Cells for HIV Seropositive Patients Undergoing Allogeneic Bone Marrow Transplant," <i>Humane Gene Therapy</i> , 3(3):319-338, June 1992.
AK	Riddell et al., "Restoration of Viral Immunity in Immunodeficient Humans by the Adoptive Transfer of T Cell Clones," <i>Science</i> , 257:238-241, July 10, 1992.
AL	Riddell et al., "Principles for Adoptive T Cell Therapy of Human Viral Diseases," <i>Ann. Rev. Immunol.</i> , 13:545-586, 1995.
AM	Rooney et al., "Infusion of Cytotoxic T Cells for the Prevention and Treatment of Epstein-Barr Virus-Induced Lymphoma in Allogeneic Transplant Recipients," <i>Blood</i> , 92(5):1549-1555, September 1, 1998.
AN	Rosenberg et al., "Gene Transfer into Humans – Immunotherapy of Patients with Advanced Melanoma, using Tumor-Infiltrating Lymphocytes Modified by Retroviral Gene Transduction," <i>N. Engl. J. Med.</i> , 323(9):570-578, August 30, 1990.

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AA	Sagerström et al., "Activation and differentiation requirements of primary T cells <i>in vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 90:8987-8991, October 1993.	
AB	Salomon et al., "B7/CD28 Costimulation is Essential for the Homeostasis of the CD4 ⁺ CD25 ⁺ Immunoregulatory T Cells that Control Autoimmune Diabetes," <i>Immunity</i> , 12(4):431-440, April 2000.	
AC	San Jose et al., "Assembly of the TCR/CD3 complex: CD3ε/δ and CD3ε/γ dimers associate indistinctly with both TCRα and TCRβ chains. Evidence for a double TCR heterodimer model," <i>Eur. J. Immunol.</i> , 28:12-21, 1998.	
AD	Saoulli et al., "CD28-independent, TRAF2-dependent Costimulation of Resting T Cells by 4-1BB Ligand," <i>J. Exp. Med.</i> , 187(11):1849-1862, June 1, 1998.	
AE	Schwartz, R.H., "Costimulation of T Lymphocytes: The Role of CD28, CTLA-4, and B7/BB1 in Interleukin-2 Production and Immunotherapy," <i>Cell</i> , 71:1065-1068, December 24, 1992.	
AF	Shevach, "Regulatory T Cells in Autoimmunity," <i>Annu. Rev. Immunol.</i> 18:423-449, 2000.	
AG	Shuford et al., "4-1BB Costimulatory Signals Preferentially Induce CD8 ⁺ T Cell Proliferation and Lead to the Amplification In Vivo of Cytotoxic T Cell Responses," <i>J. Exp. Med.</i> , 186(1):47-55, July 7, 1997.	
AH	Smith et al., "T-Cell Growth Factor-Mediated T-Cell Proliferation," <i>Ann. N.Y. Acad. Sci.</i> , 332:423-432, 1979.	
AI	Springer et al., "The Lymphocyte Function-Associated LFA-1, CD2, and LFA-3 Molecules: Cell Adhesion Receptors of the Immune System," <i>Ann. Rev. Immunol.</i> , 5:223-252, 1987.	
AJ	Tagaya et al., "Generation of secretable and nonsecretable interleukin 15 isoforms through alternate usage of signal peptides," <i>Proc. Natl. Acad. Sci. USA</i> , 94:14444-14449, December 1997.	
AK	Takahashi et al., "Cutting Edge: 4-1BB Is a Bona Fide CD8 T Cell Survival Signal," <i>J. Immunol.</i> , 162:5037-5040, 1999.	
AL	Tan et al., "4-1BB Costimulation Is Required for Protective Anti-Viral Immunity After Peptide Vaccination," <i>J. Immunol.</i> , 164:2320-2325, 2000.	
AM	Turka et al., "T-cell activation by the CD28 ligand B7 is required for cardiac allograft rejection <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 89:11102-11105, November 1992.	
AN	van de Winkel et al., "Human IgG Fc receptor heterogeneity: molecular aspects and clinical implications," <i>Immunol. Today</i> , 14(5):215-221, 1993.	
AO	Voltz et al., "A Serologic Marker of Paraneoplastic Limbic and Brain-Stem Encephalitis in Patients with Testicular Cancer," <i>N. Eng. J. Med.</i> , 340(23):1788-1795, June 10, 1999.	
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	AA	Wang et al., "Naïve CD8 ⁺ T Cells Do Not Require Costimulation for Proliferation and Differentiation into Cytotoxic Effector Cells," <i>J. of Immunol.</i> , 164:1216-1222, 2000.
	AB	Webb et al., "Extrathymic Tolerance of Mature T Cells: Clonal Elimination as a Consequence of Immunity," <i>Cell</i> , 63:1249-1256, December 21, 1990.
	AC	Wells et al., "Following the Fate of Individual T Cells Throughout Activation and Clonal Expansion," <i>J. Clin. Invest.</i> , 100(12):3173-3183, December 1997.
	AD	Wells et al., "T Cell Effector Function and Anergy Avoidance Are Quantitatively Linked to Cell Division," <i>J. Immunol.</i> , 165:2432-2443, 2000.
	AE	Weyand et al., "Functional properties of CD4 ⁺ CD28 ⁻ T cells in the aging immune system," <i>Mechanisms of Ageing and Development</i> , 102(2, 3):131-147, May 15, 1998.
	AF	Yee et al., "Isolation of High Avidity Melanoma-Reactive CTL from Heterogeneous Populations Using Peptide-MHC Tetramers," <i>J. Immunol.</i> , 162:2227-2234, 1999.
	AG	Yotnda et al., "Cytotoxic T Cell Response Against the Chimeric p210 BCR-ABL Protein in Patients with Chronic Myelogenous Leukemia," <i>J. Clin. Invest.</i> , 101(10):2290-2296, May 1998.
	AH	Zamai et al., "Lymphocyte binding to K562 cells: effect of target cell irradiation and correlation with ICAM-1 and LFA-3 expression," <i>Eur. J. Histochem.</i> , 38(Supp.1):53-60, 1994.
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